

The Magic School Bus

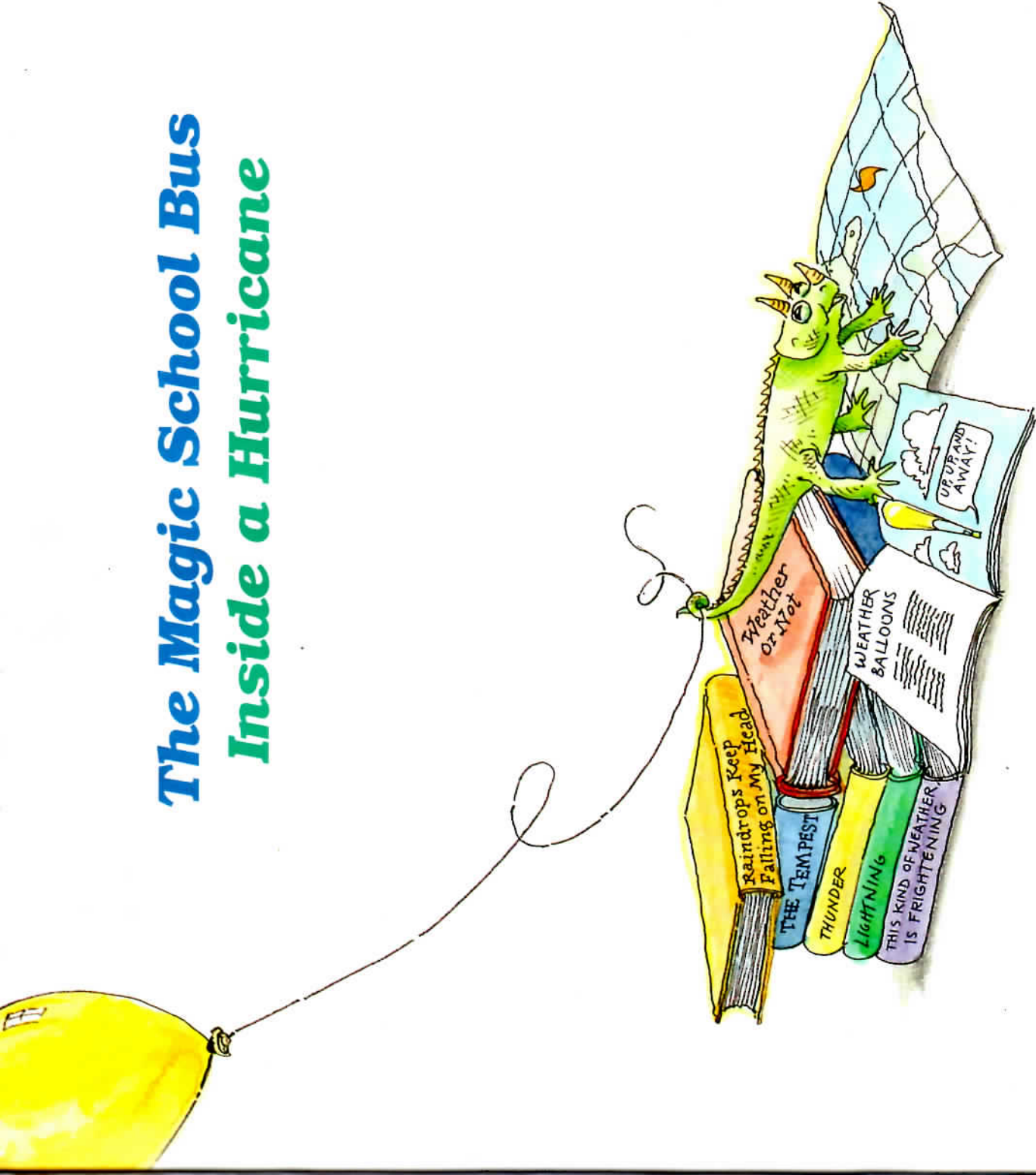
INSIDE A HURRICANE

By Joanna Cole

Illustrated by Bruce Degen



The Magic School Bus *Inside a Hurricane*





The Magic School Bus **Inside a Hurricane**

By Joanna Cole
Illustrated by Bruce Degen



CLASS, TO UNDERSTAND
WEATHER, WE HAVE TO
KNOW ABOUT THE SUN.

IT'S A HOT TOPIC!



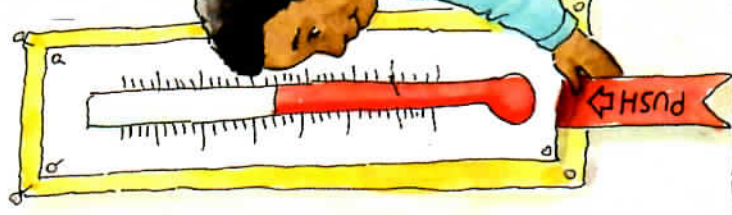
Q: WHY IS THE
TEMPERATURE
USUALLY HIGHER
IN THE AFTERNOON?

A: BECAUSE BY
AFTERNOON, THE SUN
HAS BEEN WARMING
THINGS UP ALL DAY.

Have you heard about our teacher, Miss Frizzle?
Her clothes are wild, her school bus is wacky,
and her class trips are weird.
Whenever we study something in her class,
we get into it in a *really* big way.

OUR TEMPERATURE RECORD
by Dorothy Ann & Tim

	Morning	Afternoon
MONDAY	65° F	73° F
TUESDAY	71° F	80° F
WEDNESDAY	69° F	76° F
THURSDAY	70° F	75° F



We were learning about weather.
Absolutely everything in our room
was about rain or snow or sun or wind.
Every kid in the class
was doing a weather project.
We were even listening to
weather reports on Miss Frizzle's radio.

AT MY OLD SCHOOL
WE DIDN'T HAVE
ALL THESE PROJECTS!

AT MY OLD SCHOOL
OUR TEACHER DIDN'T
DRESS LIKE THAT



ANEMOMETER
measures
wind, force
and speed.



TODAY'S MATHS



SPELLING WORDS

Sun
rain
drizzle
hail
don't
your

Wind
Snow
sleet
hurricane
forget
umbrella

AND NOW FOR
THE WEATHER...



SNOW
RAIN
HAIL
and HEARTY

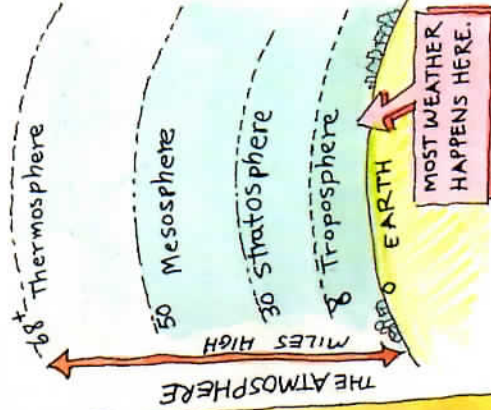
ADVENTURES OF
WEATHERMAN
WEATHERMAN FACES
THE STORM
WEATHERMAN
MEETS SNOWMAN

THE EARTH IS WRAPPED
IN A BLANKET OF AIR
by Tim

(EARTH) - ATMOSPHERE

Our atmosphere is a
blanket of air hundreds
of miles thick.

Most of our weather
happens in the troposphere -
the 8 miles of air that is
closest to earth.



So we weren't surprised one morning
when Miss Frizzle said,
"It's a perfect day for our trip
to the weather station!"

WE'LL MEET A TEAM OF
WEATHER FORECASTERS.
WE'LL LEARN ABOUT
OUR ATMOSPHERE!

MISS FRIZZLE SAYS WE HAVE TO
KNOW ABOUT AIR TO UNDERSTAND
WEATHER.

AND WE HAVE TO KNOW
ABOUT WATER, TOO.

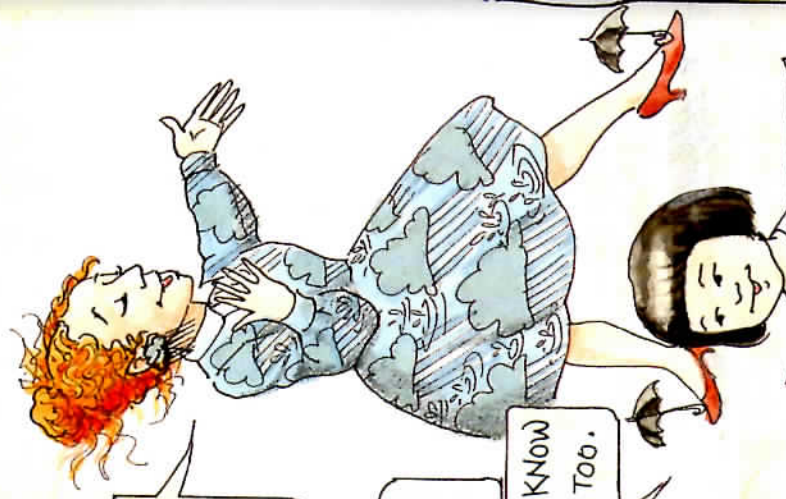
I CAN'T SEE IT.

AIR IS A MIXTURE
OF INVISIBLE GASES.
by Shirley

AIR HAS WEIGHT.
by Ralphie



AIR CONTAINS WATER.
by Wanda

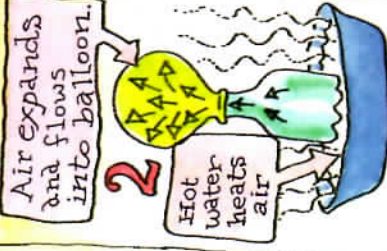
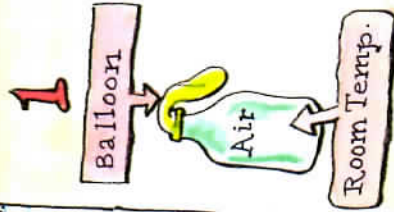


All of a sudden Dorothy Ann said, "Look!"
We couldn't believe it.
We were all wearing flying suits.
We were sitting in a basket!
The bus had turned into a hot air balloon,
and we were about to lift off!

AT MY OLD SCHOOL,
WE NEVER WENT
UP IN HOT AIR
BALLOONS

SOUNDS LIKE
MY KIND OF
SCHOOL.

WE'LL BE USING
THIS GAS BURNER
TO HEAT THE AIR
IN THE BALLOON.



Ask an adult
for help when
using very hot
water.

HEAT MAKES AIR EXPAND
by Molly

Hot air expands because
heat makes air molecules
bounce far apart.

TWO WORDS FROM

DOROTHY ANN

When something expands,
it spreads out.

Air molecules are the
tiniest bits of air.

SEE HOT AIR RISE

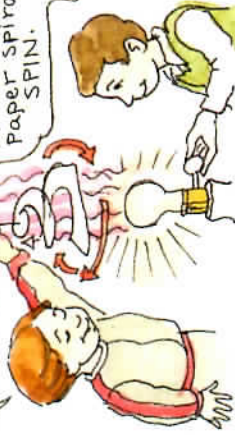
by Alex and Rachel



1. Cut a Spiral. 2. Needle and thread

The light bulb heats the air.

The warm air rises and makes the paper spiral SPIN.



WHY DOES HOT AIR RISE?

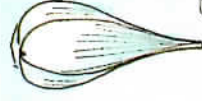
by Carlos

Hot air is lighter than cold air, so it "floats" on top of cold air, the way a marshmallow floats on hot chocolate.



We started going up, and Miss Frizzle said, "Didn't I mention, children, that hot air rises?"

CLASS, EVERY DAY ALL OVER THE WORLD, SCIENTISTS SEND UP SPECIAL BALLOONS TO TAKE WEATHER MEASUREMENTS.



WEATHER BALLOON

WE'RE GOING UP!

Wow!



We rose higher and higher.

Even though hot air was filling the balloon,
the air around us was growing colder.
We had to put on warm jackets.

IT'S COLD UP HERE!

YOU'RE NOT AFRAID
OF HIGH PLACES,
ARE YOU, ARNOLD?

THAT RADIO SPOKE TO ME!

HOW DID IT KNOW MY
NAME?

I KNEW I SHOULD HAVE
STAYED HOME TODAY.

GOING UP?
BETTER BUNDLE UP!

by Phoebe

BRRR.

Warm air rises
from earth.
As it goes up,
it gets colder.

YOU CAN'T SEE IT,
BUT IT'S ALL
AROUND YOU.
WHAT IS IT?

AIR!

Riddle
Book

A WEATHER WORD

by Dorothy Ann

When water condenses,
molecules of water vapour
join together and make
drops of liquid water.



"Warm air rising from earth carries
lots of water vapour molecules,"
Miss Frizzle continued.

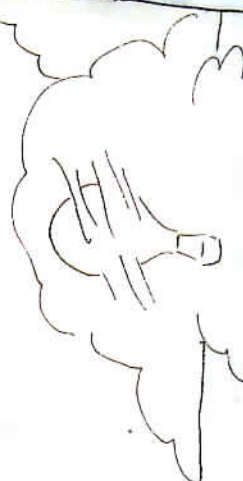
"As the air rises, it cools down.
The water condenses in the air
and forms clouds."

DID YOU BRING
YOUR RAINCOAT,
ARNOLD?

TELL ME THIS
ISN'T HAPPENING...



We drifted into the centre of a cloud.
Miss Frizzle was right – it was *damp* in there.
The cloud was made of tiny water droplets
hanging in the air.



WHEN IS THAT TEACHER
BRINGING HER CLASS?

NOT TILL LATER.

MUCH LATER...

WHAT KIND OF CLOUDS
ARE FORMING AROUND
MISS FRIZZLE AND THE KIDS?



WEATHER
STATION

THREE KINDS OF CLOUDS by Wanda

1. Curly or wispy clouds
are called cirrus.

2. Layered clouds are called
Stratus.

3. Lumpy or puffy clouds
are called cumulus.

WHAT MAKES RAIN CLOUDS TURN DARK?

by Gregory



Rain clouds have lots of ice crystals and big, heavy raindrops. These block out the sun.

OUR RAINMAKING PROJECT

by Amanda Jane and Arnold



WHEN YOU
USE THE STOVE...

...REMEMBER
TO ASK AN
ADULT TO HELP.

Inside the cloud, droplets began coming together. They formed bigger and bigger drops. As the drops became heavier, they started falling.

IT TAKES THOUSANDS
OF DROPLETS TO FORM
JUST ONE RAINDROP.

MOST CLASSES
STAY IN ON
RAINY DAYS.

NOT MISS FRIZZLE'S
CLASS!



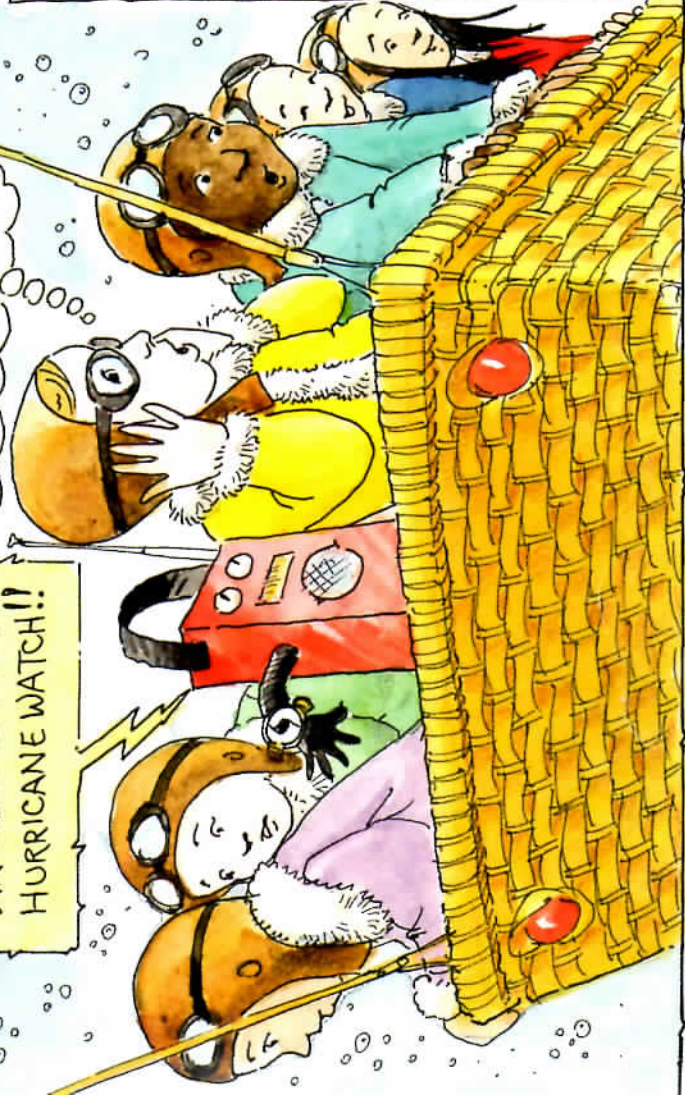
Down below, the weather forecasters were standing in the rain.

They didn't see us inside the cloud, but we could hear their voices.

One of them said, "I hope that teacher knows there's a *hurricane watch* in effect."

CHECK OUT MY
HURRICANE WATCH,
ARNOLD. GET IT?
HURRICANE WATCH!!

I'M PRETENDING
I CAN'T HEAR....



WHAT IS A HURRICANE?

by Florrie

A hurricane is one of the most violent kinds of storms.

In a hurricane, winds swirl in a circle around the storm's centre at 74 miles per hour or more!



MORE WORDS FROM DOROTHY ANN

A Hurricane Watch means that a hurricane may strike within the next 36 hours.

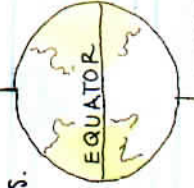
A Hurricane Warning means that a hurricane is likely to strike within the next 24 hours.

A warning is more urgent than a watch.

WHAT IS THE EQUATOR?

by Carlos

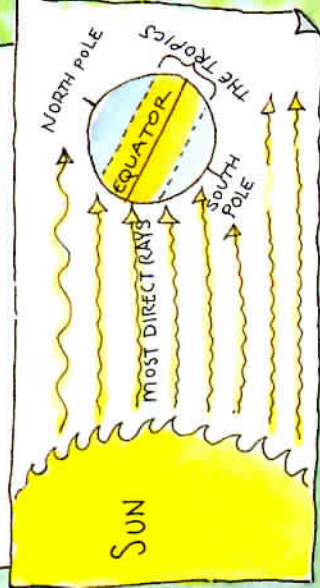
The equator is an imaginary line around the earth's middle. It divides the globe into two equal parts.



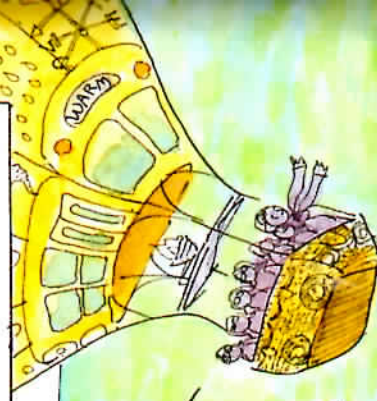
WHY IS IT HOTTER NEAR THE EQUATOR?

by Michael

Because of the way the earth is tilted, the sun's rays almost always shine towards the earth's middle. This means there are no cold winters there.



As usual, Miss Frizzle paid no attention. She turned up the fire, and more hot air rushed into the balloon. As we rose above the cloud, the wind started pushing us south. Before long, we had travelled thousands of miles. Miss Frizzle said we were above a tropical ocean about five hundred miles north of the equator.



Wow! LOOK AT THAT WATER!

WE CAN GO SWIMMING!

AND WINDSURFING!

AND SNORKELLING!

Below us, blue-green waves were sparkling.
On a sandy island, palm trees were waving.
It looked like a holiday paradise to us.
But Frizzie said, "Class, we have now arrived
at one of the world's hurricane breeding grounds!"

NEARLY ALL HURRICANES
GET STARTED OVER WARM
TROPICAL OCEANS, KIDS.

I'VE HEARD THAT
HURRICANES ARE
DANGEROUS.

So Miss Frizzle IS
TAKING US TO ONE.

SHE WOULD!

WHY DO HURRICANES HAVE NAMES?

by Carmen

Often, more than one
hurricane is brewing at once.
It's easier to keep track of
them if they are given

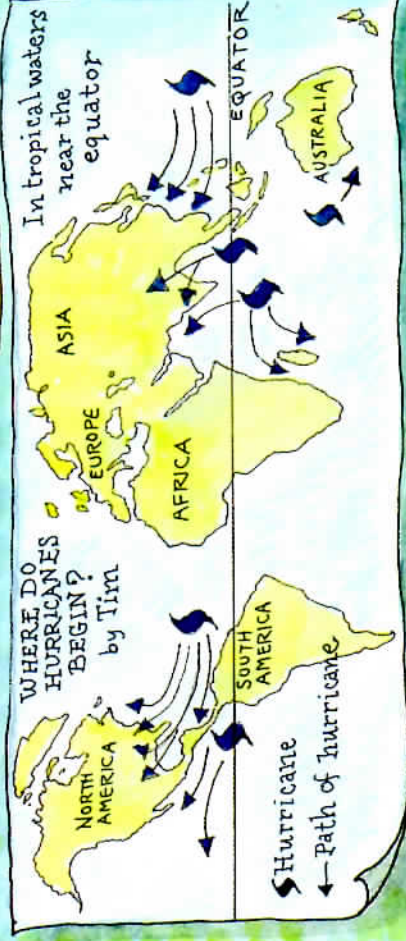
names.

Some famous hurricanes:

- Agnes
- Andrew
- Bob
- Elena
- Gilbert
- Gloria
- Hugo

HI BOB!

WHAT'S
HAPPENING
GLORIA?



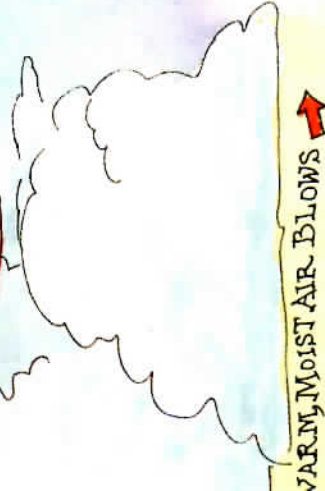
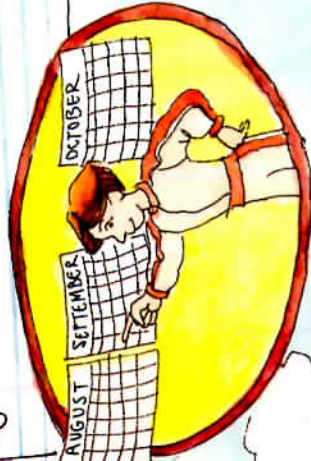
WHEN IS HURRICANE SEASON?

by Rachel

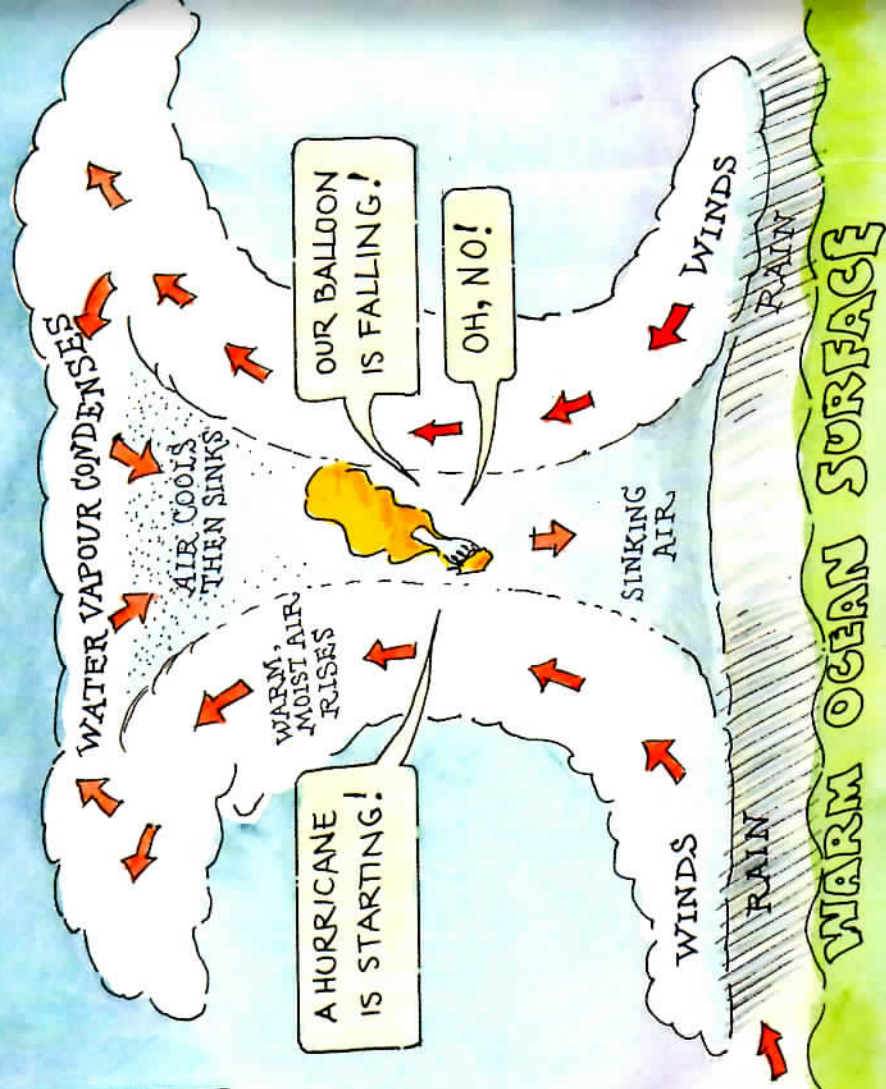
Most hurricanes begin in the late summer and early autumn. That is when tropical oceans

are warmest.

The warmer the ocean is, the stronger the hurricane is likely to become.



"Class, remember that as hot air rises from the ocean surface, the water vapour in the air condenses and forms clouds," said the Friz. Down below, more hot air rushed in from all sides to take the place of the rising air. In the middle of the rising air, a column of sinking air formed. We started sinking with it.



"Oh dear," said Miss Frizzle.

"The balloon must have sprung a leak."
Hot air was rushing out, and the balloon
was plummeting fast.

"Jump ship, class!" shouted the Friz.
She jumped overboard, and we went after her.
Right away, we knew it was a big mistake.



DO ALL TROPICAL STORMS
BECOME HURRICANES?

by Amanda Jane

No. All around the
world, there are more than
100 tropical storms each
year. Only about 60 of them
grow to hurricane strength.
And only a handful
of those ever reach places
where people live.



WHAT MAKES HURRICANE WINDS BLOW IN A CIRCLE?

by Alex

Winds begin by blowing straight. But the movement of the earth as it spins on its axis makes them curve.



- The faster winds blow, the more they curve.
- Hurricane winds are very fast, so they curve and curve until they make a circle.

The wind was blowing the clouds into a huge circle.
“The storm is starting to take on the typical shape of a hurricane. Isn't it fascinating, children?” shouted Miss Frizzle.



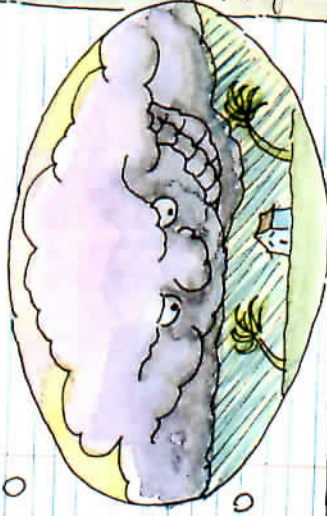
It was more than fascinating.
It was terrifying!

We were caught in the edge of the storm,
blowing around and around in a giant whirlwind.
That whirlwind was a hurricane!

HOW BIG IS A HURRICANE?

by John

Hurricanes are enormous.
Each one is about 10 miles
high and 300 to 600 miles
wide!



A TYPICAL HURRICANE
HAS A LIFE SPAN
OF ABOUT 10 DAYS.

LISTENERS- WE'LL
BE TELLING YOU
ABOUT THE
WHOLE HURRICANE.

MAYBE ITS
BATTERIES WILL
RUN OUT SOON.



LIGHTNING IS ELECTRICITY by Ralphie

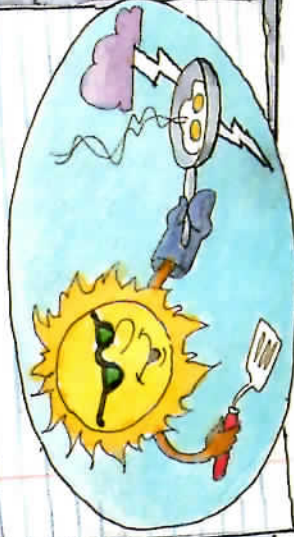
Clouds become charged with electricity. When the voltage gets high enough, electricity leaps from one place to another. Then we see lightning.



LIGHTNING IS HOT!

by Keesha

A lightning bolt reaches a temperature of $50,000^{\circ}\text{F}$. That's about five times hotter than the sun's surface!



In the clouds around us, huge bolts of lightning were flashing. We thought it was all over for us, but then we saw the bus again. It had become a weather plane — the kind that explores hurricanes. We tumbled into a rescue chute and fell onto the plane . . . that is, the bus . . . er . . . we mean the plane.



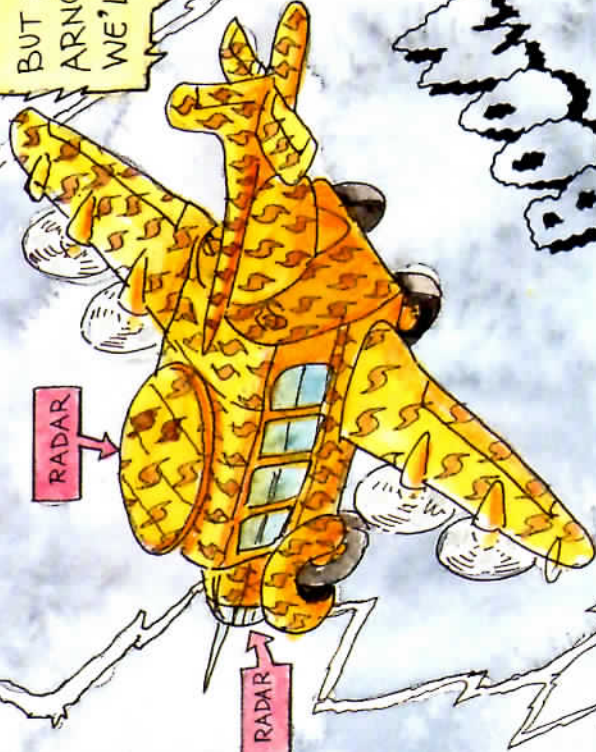
Thunder crashed and boomed.
We covered our ears.
Miss Frizzle turned the plane,
and we headed straight towards
the centre of the storm.
We had the feeling someone
was missing.

- THUNDER IS A SOUND MADE
BY AIR by Phoebe
- Lightning heats up air
and makes it expand.
Thunder is the sound of
the air expanding.
- When you open a soft
drink can, you hear a "pop."
That's the sound of air
expanding. It's just like
thunder, only much
smaller.

WE ARE NOW
EXPERIENCING
THE HURRICANE
CLOSE UP....

BUT NOT TO WORRY,
ARNOLD, I'M SURE
WE'LL BE FINE.

WHY DOES
EVERYTHING
ALWAYS HAPPEN
TO ME?!



THUNDERSTORMS: RAIN, RAIN,
AND MORE RAIN
by Florrie

In 20 minutes, one
thunderstorm sends down
125 million gallons
of water!

We flew through miles of thunderstorms,
and Miss Frizzle took the register.
Guess who was missing — Arnold!
He had fallen and missed the plane!

ARNOLD IS NOW
EXPERIENCING
THE HURRICANE
CLOSE UP...

ARNOLD FELL!

POOR
KID!

BUT NOT TO WORRY,
TIM. I'M SURE
HE'LL BE FINE.

OH NO!



Miss Frizzle marked Arnold absent
and flew straight into the storm.

WE'RE FLYING
INTO THE
HURRICANE!

WHAT A
DISASTER!

WHY DOES
EVERYTHING
ALWAYS HAPPEN
TO US?!



HOW FAST DO THE WINDS BLOW
INSIDE A HURRICANE?

by Carmen

Outer hurricane	40 mph
Middle hurricane	74 mph
Inner hurricane	120-150 mph

HOW FAST IS THE WIND BLOWING
AT THE EYE WALL, KIDS?



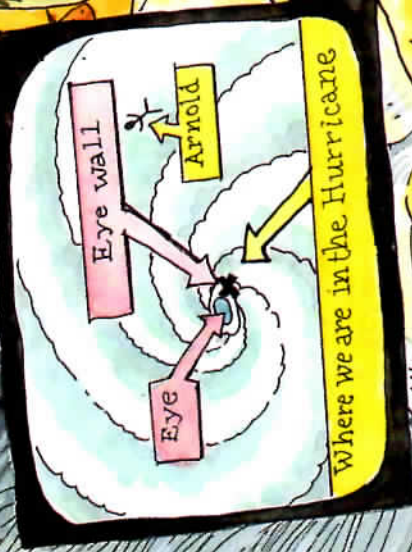
The further in we went,
the faster the winds blew.
At last, we came to the inner hurricane
and entered the eye wall - a ring of
heavy clouds around the storm's centre.
In the eye wall, the winds
were blowing the fastest yet!
And the rain was coming down
in sheets!

THE EYE WALL IS
THE FIERCEST PART
OF THE HURRICANE!

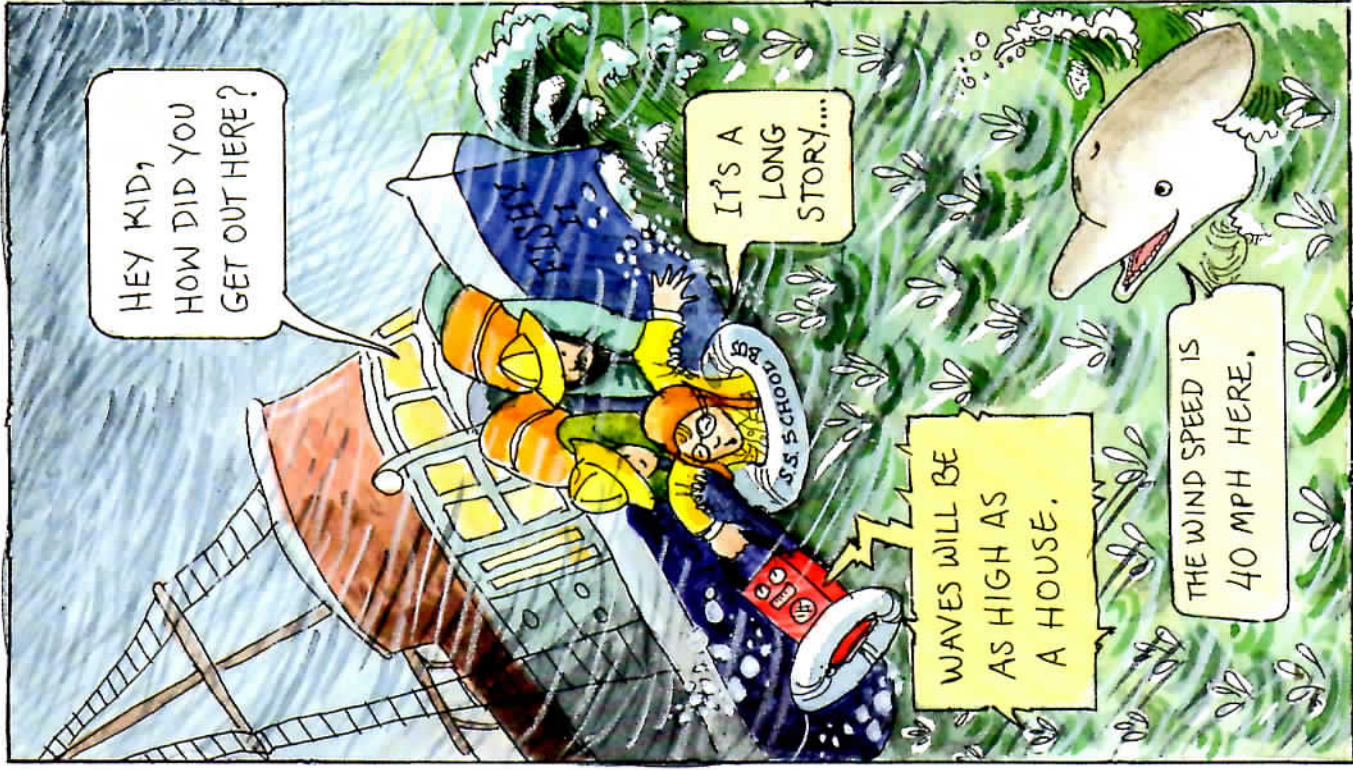
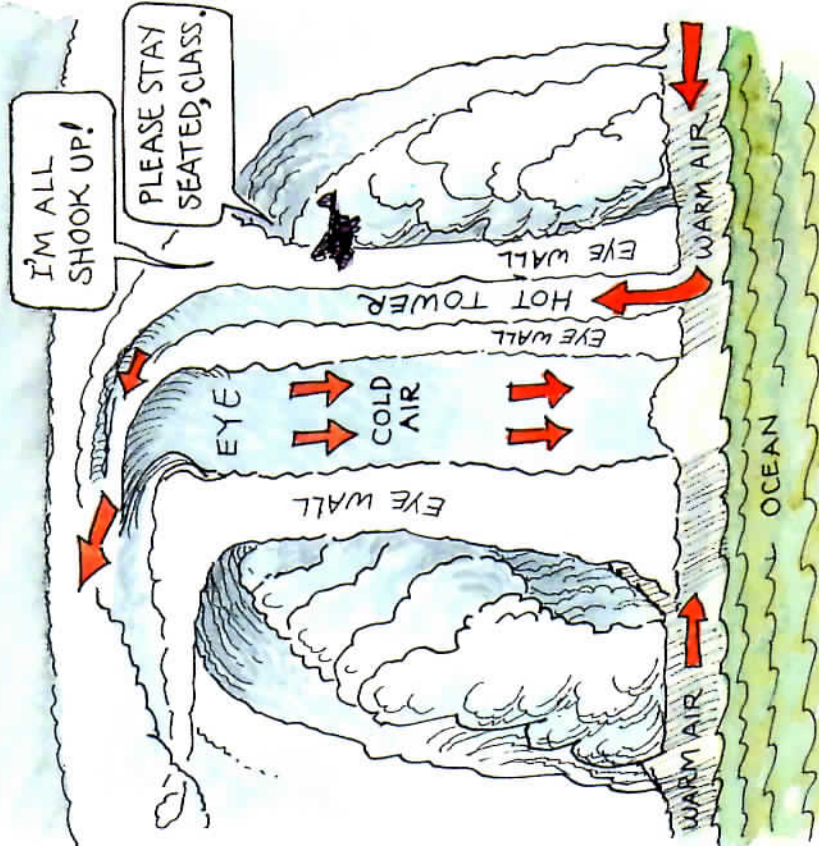
WE'RE ENCOUNTERING
TURBULENCE, CLASS.

TURBULENCE
IS WHEN THE AIR
IS VIOLENTLY
DISTURBED.

I AM VIOLENTLY
DISTURBED!



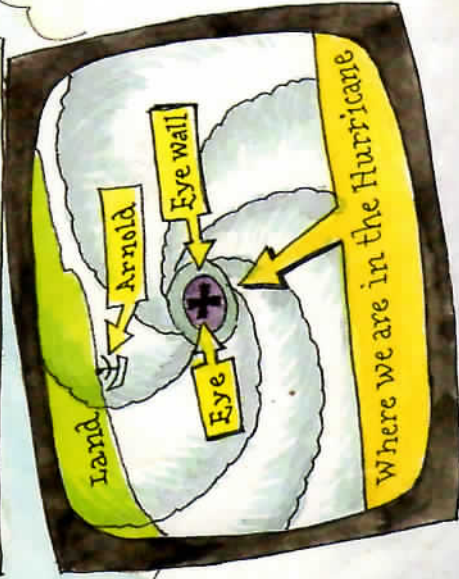
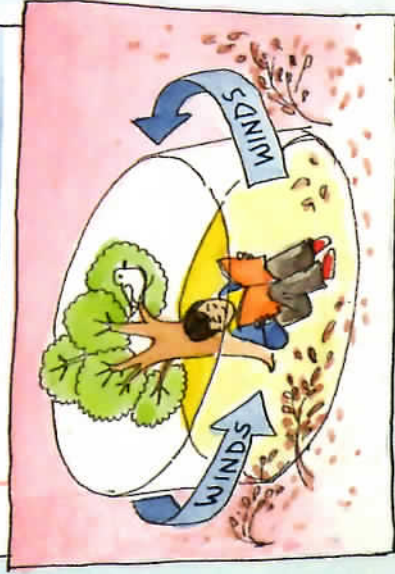
All around were columns of air called hot towers, or chimneys. They were sucking up more and more hot moist air from the ocean. The heat energy from the air was feeding the storm and making it stronger. The plane was shaking and so were we!



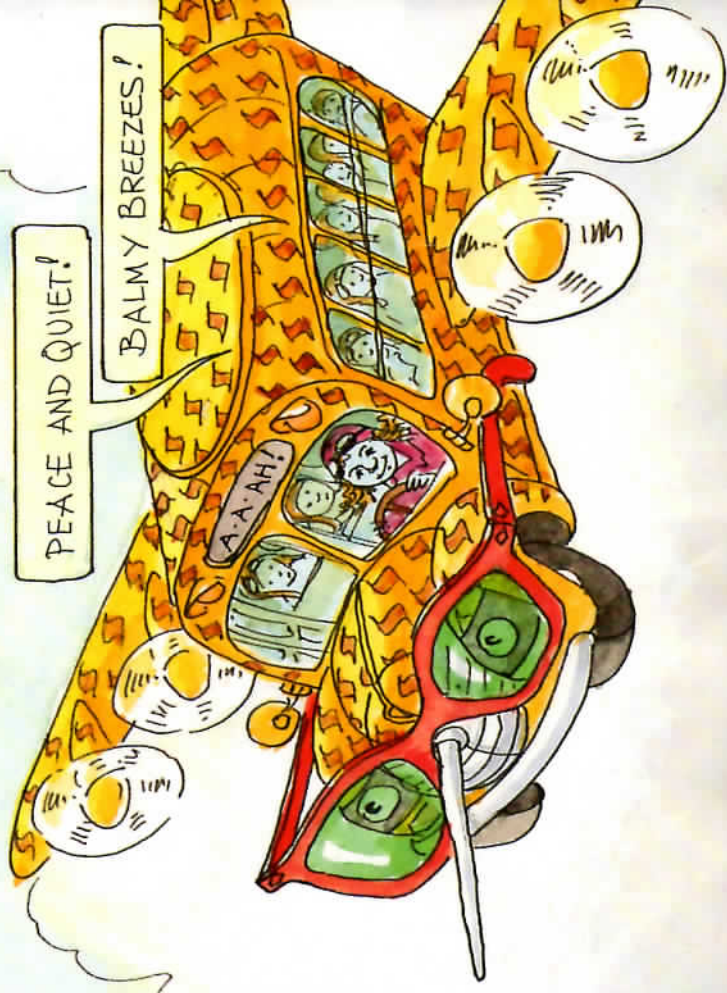
IT'S QUIET IN THE EYE OF A

HURRICANE by Carlos

The fierce swirling winds of the hurricane do not enter the **centre** of the storm.



Then suddenly everything was quiet.
"Class, we have entered the eye – or centre of the hurricane!" announced Miss Frizzle.
The ocean waves still crashed below and the winds howled outside, but in the eye only gentle breezes blew.
Up above, the sky was blue and the sun was shining.
We relaxed and enjoyed ourselves.



We flew about thirty miles across the eye.
Then the Friz called out,
"We will enter the other side of the eye wall now."
"Don't go!" we cried,
but the plane was already on its way — back into the hurricane's fierce wind and rain.

WHY DON'T HURRICANE WINDS BLOW INTO THE EYE?

by Shirley

The winds swirl in towards

the eye of the storm, but they do not enter it because

- they are pushed out by the same force that pushes you outwards when you spin around.



HOW HURRICANES TRAVEL

by Wanda

- When a hurricane starts, it usually moves slowly—about 10 to 20 miles per hour. As the storm gets further north, its speed can increase up to 60 miles per hour!
- Hurricanes can travel hundreds of miles each day.

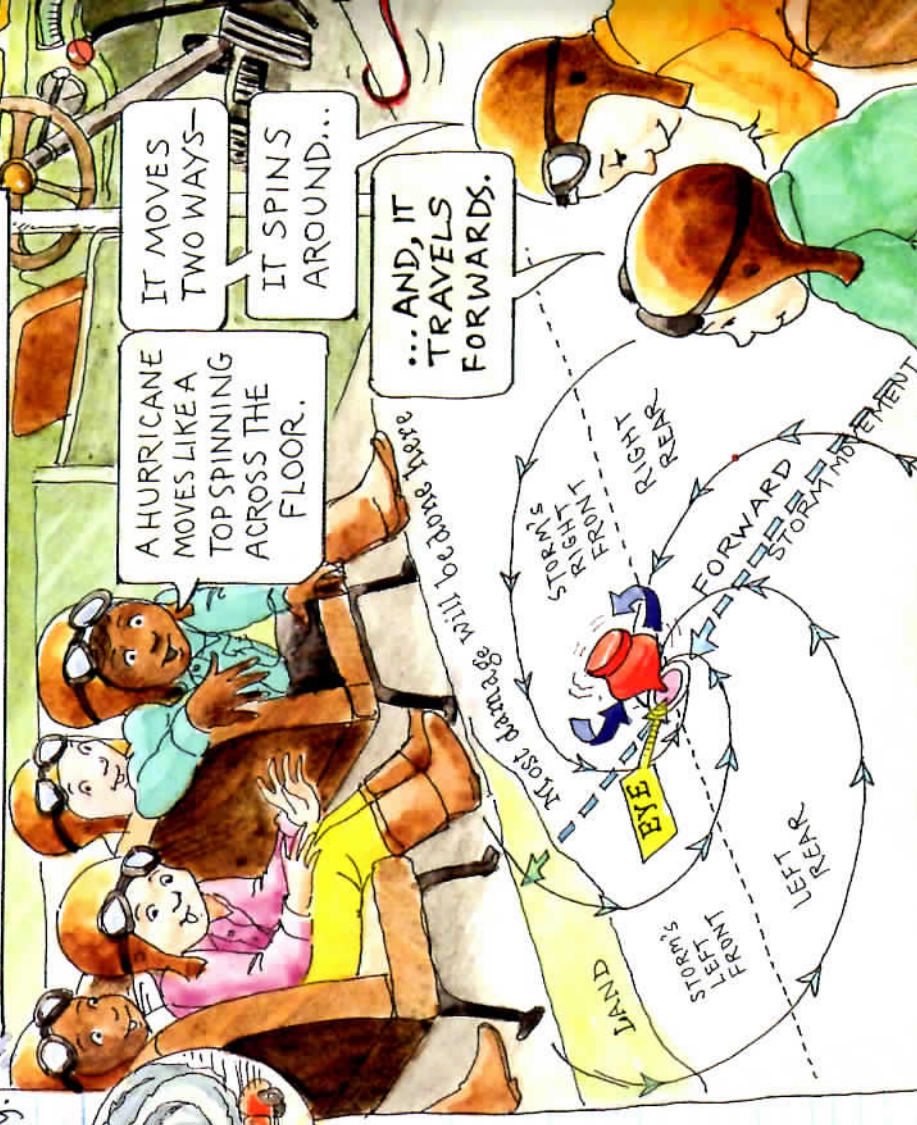


- WHICH PART OF THE HURRICANE IS STRONGEST?

by Florrie

- The right front corner is strongest because the whirling winds are circling towards the shore. They add their strength to the winds that move the storm forward.

The entire hurricane was moving across the ocean towards land, and we were going with it! "The right forward corner of the hurricane as you are looking towards land has the strongest wind and rain and the highest ocean waves," shouted the Friz. Naturally, she flew directly into that part.





ARNOLD
SHOULD BE
REACHING LAND
ANY MINUTE NOW.

LET'S TAKE
A SPIN.



THE HURRICANE
SHOULD BE
REACHING LAND
ANY MINUTE NOW.

TELL ME
ABOUT IT!

WE MUST
EVACUATE
BEFORE THE
FLOODS COME.

SALT
WATER
TAFFY

HURRICANE
EVACUATION
ROUTE

ANOTHER WEATHER WORD
by Dorothy Ann,
When people evacuate
an area, they get out
of there fast!

HURRICANES... THEN AND NOW

○ by Ralphie

In the past, there was less property damage. Today, coastal areas are more built up. So more houses and buildings are damaged in hurricanes.

○ But today, not as many lives are lost! In past times, many people were killed because no one knew when hurricanes were coming. Today, weather forecasts tell us to get ready for hurricanes.

As the hurricane approached land, the wind pulled up trees by the roots and blew the roofs off houses. It also blew ashore a huge dome of water called the storm surge. The ocean rose ten feet higher than usual and, on top of that, there were giant waves. We were horrified as we watched the storm surge sweep over the shore below.

IN 1900, MORE THAN 6,000 PEOPLE DROWNED WHEN A STORM SURGE SWEEP ACROSS GALVESTON ISLAND, TEXAS, CLASS.

THAT WAS A LONG TIME AGO.

IT WOULDN'T HAPPEN NOW.



But that was nothing compared to the horror we felt when we heard the Friz shouting above the sound of roaring water,

"We seem to be running out of fuel, children!"

Sure enough, the plane was dipping lower and lower.

As we fell into the water, we saw Arnold waving to us from a nearby roof.

THAT KID LOOKS FAMILIAR.

THAT PLANE LOOKS FAMILIAR.

TODAY, HURRICANE PREDICTIONS SAVE LIVES.

ARNOLD, WE NEED TO EVACUATE NOW!



WHAT IS A TORNADO?

by Arnold

A tornado is a twisting funnel-shaped whirlwind that hangs from a thunder cloud.

50,000 feet up

Huge
Thunder cloud

Somehow Arnold managed to get on the plane before we were swept away by the waves at the front edge of the hurricane. The water was creeping up the windows. The plane was going to sink for sure! Then we saw a dark, funnel shape coming our way.

WE FELL INTO THE OCEAN....

WE FLEW INTO THE EYE....

A FISHING BOAT
PICKED US UP...

THE EYE WALL
WAS THE WORST....

WE THOUGHT WE
WERE GONERS!

WE THOUGHT WE
WERE GONERS!

WE ARE GONERS!



"I've seen that shape on TV," said Ralphie.
"I read about it in a book!" said Keesha.
The twister came right for us.
The next thing we knew, it had picked us up,
and we were travelling by tornado!

TORNADOES OFTEN
OCCUR AT THE EDGES
OF HURRICANES
THAT ARE MOVING
OVER LAND, CLASS.

ARE TORNADOES AND
HURRICANES ALIKE?

by Phil

Yes and no.

Tornadoes and hurricanes
are both whirlwinds.

But tornadoes:

1. are much smaller than hurricanes
2. have faster winds, for the most part
3. destroy almost everything in their path.

Tornadoes can twist
at speeds of 200 to 300
miles per hour.

A TYPICAL TORNADO HAS
A SHORT LIFE SPAN—
ONLY A FEW MINUTES.

I THINK
MY LIFE SPAN
JUST GOT SHORTER.



CAN TORNADOES REALLY CARRY OBJECTS?

by Keesha

Yes! Tornadoes are like
giant vacuum cleaners.
They lift dirt, rubbish, and
even large objects, such as
houses, cars, trees, and
railway trains!

Once a tornado picked up
a crate of eggs and set them
down miles away. Not one
egg was broken!

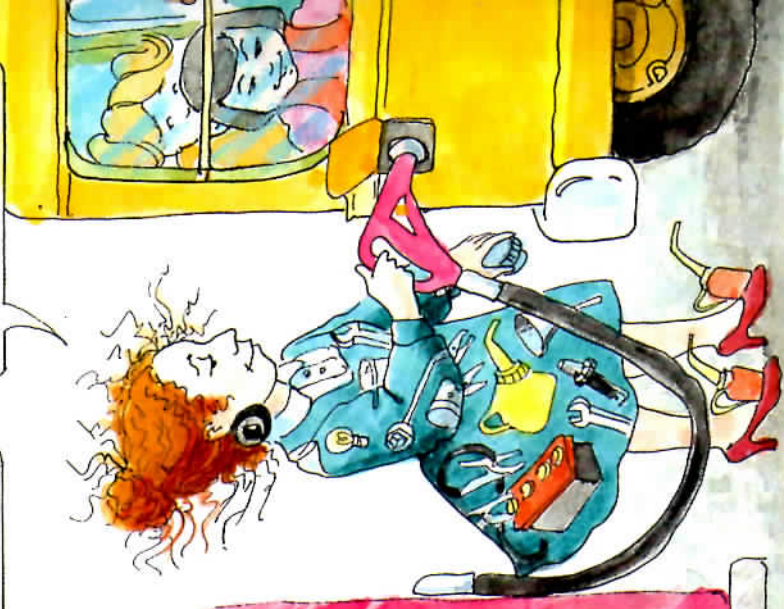
THANK GOODNESS!



After a while we felt a bump and looked around.
The tornado had set us down gently.
We were in our old school bus again.
We were dressed in our usual clothes again.
The hurricane was over.
And we were at a petrol station.

USUALLY THE THINGS THAT ARE
PICKED UP BY A TORNADO ARE
BROKEN APART...

BUT NOT ALWAYS.



Miss Frizzle filled up the tank and drove down the road as if nothing had happened. "As I said earlier, class, we are on our way to visit a weather station," she said.

TAKE OUR CASE, FOR EXAMPLE. WE'RE ALL OKAY.

EVEN THE RADIO IS STILL WORKING FINE.

HERE'S A TREAT JUST FOR YOU, ARNOLD— ANOTHER WEATHER UPDATE....

THAT DEPENDS ON WHAT YOU MEAN BY "WORKING FINE."



WEATHER STATION

The weather forecasters at the station had a lot to tell us about hurricanes. We had a lot to tell *them*, too!



HURRICANE WINDS
SWIRL IN A CIRCLE
BECAUSE...

...OF THE ROTATION
OF THE EARTH.

HEY...THAT'S RIGHT....

HURRICANE
ARE YOU
PREPARED??



A HURRICANE
FROM START
TO FINISH



1. HOT AIR RISES
OVER TROPICAL OCEANS
NEAR EQUATOR

2. THUNDERCLOUDS
FORM



3. WINDS BEGIN
CIRCLING AROUND
EYE OF STORM



4. STORM TRAVELS



A HURRICANE
DIES AS IT MOVES
OVER LAND
BECAUSE ...

...THERE IS NO MORE
HOT, MOIST OCEAN
AIR TO FUEL THE
STORM.

THE KIDS
KNOW A LOT
ABOUT
HURRICANES
DON'T THEY,
AL?

THAT RADIO
SPOKE TO ME!

HOW DID IT
KNOW MY NAME?

I KNEW I SHOULD
HAVE STAYED AT
HOME TODAY.

5. CIRCLING WINDS
INCREASE TO 74 MPH
OR MORE

6. IF HURRICANE REACHES
SHORE, LAND IS FLOODED
BY STORM SURGE

7. HURRICANE FADES
GRADUALLY AS IT
MOVES INLAND

THE FUTURE OF HURRICANES MORE, MORE, MORE?

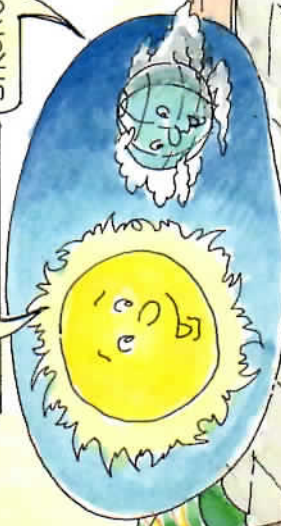
by Amanda Jane

During times when the earth is warmer, there may be more hurricanes.

- Many scientists think the earth's temperature is going up. If this is true, there could be more hurricanes in our future.

GLOBAL WARMING
COULD MEAN
MORE HURRICANES...

...AND THEY
MIGHT BE
STRONGER!



Finally, we drove back to school
and finished our weather projects.

THREE BAD THINGS HURRICANES DO

by John

- 1 Hurt people



- 2 Destroy property



- 3 Make floods



THREE GOOD THINGS HURRICANES DO

by Gregory

- 1 Balance earth's temperature by drawing away hot air



- 2 Bring rain to dry places



- 3 Clean the air with falling rain.



Weather Vane

paper
Straw

Pen top



by Tim

Rain Gauge

Put beaker out in rain.

How many inches fell?



by Amanda Jane

MAKE A TWISTER IN A BOTTLE

by Miss Frizzle

- 1 Fill a bottle $\frac{2}{3}$ full of water.
- 2 Hold bottle over sink.
- 3 Cover opening with one hand and turn bottle upside down.
- 4 Move bottle rapidly in a circle.
- 5 Stop circling.
Take hand away from opening.
- 6 See twister in bottle as water runs out.



AND NOW FOR
SOME MUSIC.....

WHAT? NO MORE
WEATHER?

COOL!

ALL RIGHT!



I WANT TO FIND OUT MORE
ABOUT...

How to keep safe
in hurricanes,
tornadoes, and
thunderstorms.
—Wanda



How snowflakes
form
—Ralphie



What causes
frost on
windowpanes?
—Rachel



What is fog?
—Arnold



MY FAVOURITE
TEMPERATURE

by Carlos



98.6°
Normal!

MY FAVOURITE
CLOUD

by Shirley



It looked like a
bunny!

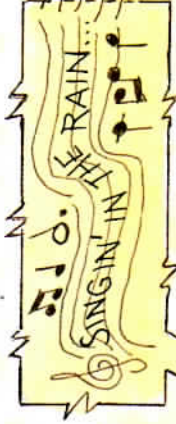
MY FAVOURITE
HAILSTORM

by Arnold

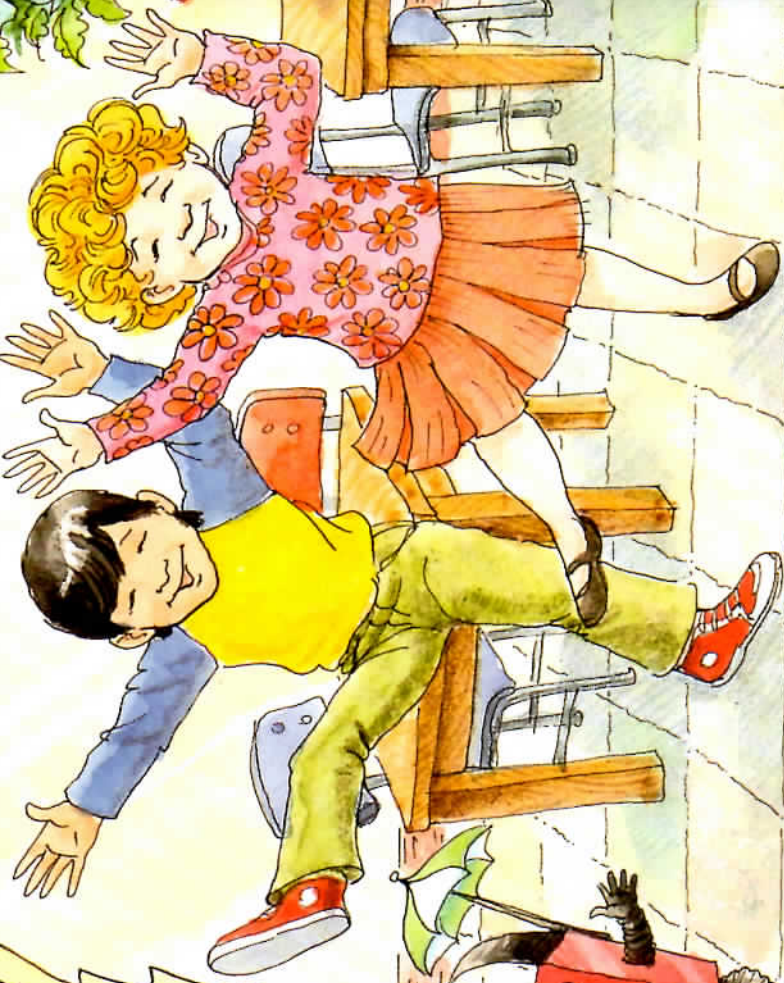


I was safe in bed.

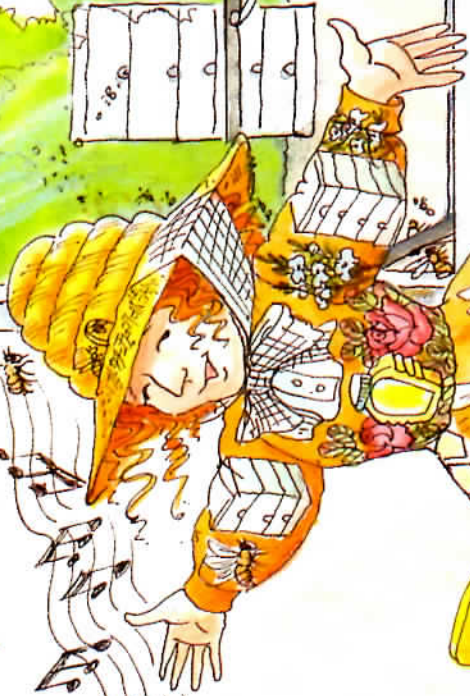
YOU DANCE
QUITE WELL
FOR A RADIO.



After that trip, we needed some time to relax.
Miss Frizzle said we could have a party.
We had great games, crazy dancing, and yummy snacks.
And for a while, we didn't even think about
Miss Frizzle's next class trip!



In Asia,
a hurricane
is called a
typhoon.



AT MY OLD SCHOOL
OUR TEACHER NEVER
WORE BEE SHOES!



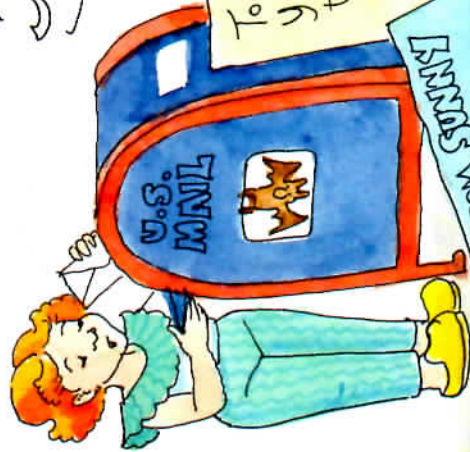
WHAT'S BUZZIN',
COUSIN?

MISS FRIZZLE'S
BUSY BEES



The Magic School Bus Mail Bag

Letters... We get letters...



EXOTIC
BROOKLYN

FOR SALE

To the Magic School Bus Editor:

You should not have said that a school bus could turn into a hot air balloon or a weather plane. That cannot really happen. Your friend, Sam

© REPTILES FROM SUNNY
SPRING NAT

Dear Joanna and Bruce,
Reading about hurricanes may be fun, but it is no fun to be in one!
I know because my family was in Hurricane ANDREW and it was scary!

-Keith

Dear Arnold,
On your trip, the hurricane reached land. But most hurricanes go far out to sea and do not hurt people and property.
Your friend,
Al, the weather scientist

To: JOANNA COLE
AUTHOR
c/o Scholastic Inc.

Dear Joanna,
Radios cannot have conversations with people.

Barbara

To: Bruce Degen
ARTIST
c/o Scholastic Inc.

Dear Bruce,
Radios do not dance.

from Jean

A fishing boat probably would not survive if it were out in a very strong hurricane.

From the Coast Guard



To all readers:
Some of the things that happen
in this book are make-believe.
But of course, all the
science is real! & Bruce
Joanna

Dear Bruce,
If Arnold really fell from
a great height into the
ocean, he would need medical
attention!
From your Doctor

Dear Joanna,
The things that happen on
Miss Frizzle's trips are much
too risky for children.
Please keep them home
next time. Your Mother

Winter in
Connecticut

Miss Frizzle,
We think the whole class
should enroll in Phoebe's
old school.
-The students at the
Better-Safe-Than-Sorry
School



Join Miss Frizzle and her class as they enter the eye of the hurricane...

Miss Frizzle's class are learning all about the weather – everyone's doing a weather project. Then Miss Frizzle decides it is the perfect day for a trip to the weather station – which means another amazing journey on the Magic School Bus! Anything can happen as the class:

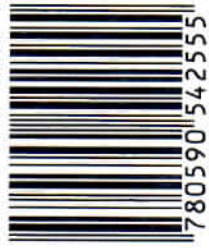
- Fly into the centre of a raging tropical storm.
- Brave winds of up to 150 miles an hour, and thunderclouds 50,000 feet tall!
- Encounter waves as high as a house when a storm surge floods the land.

School trips on the Magic School Bus are *never* boring!

"...the freshest, most amusing approach to science for children!"

– *The New York Times Book Review*

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MAGIC SCHOOL BUS